

## INFORMATION REPORT

CD NO.

COUNTRY Czechoslovakia

**CONFIDENTIAL**

DATE DIS. 5 JAN 50

SUBJECT Power Station at Trebovice

NO. OF PAGES 2 50X1-HUM

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ACQUIREDO. OF ENCLS.  
(STED BELOW)

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DATE OF INFO.

SUPPLEMENT TO  
REPORT NO.

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1. The present equipment of the Power Station ET I at Trebovice is as follows:

a. Boilers

- 1) 3 high-pressure steam boilers (Loeffler); 150 atm; 500° C; capacity 45 tons an hour.
- 2) 2 high-pressure steam boilers (Loeffler); 150 atm; 500° C; capacity 85 tons an hour.
- 3) 2 low-pressure steam boilers (Babcock & Wilcox); 20 atm; 340° C; capacity 10 tons an hour.
- 4) All the boilers are heated by coal dust.

b. Turbogenerators

- 1) One turbogenerator with an output of 23,500 KW.
- 2) Two with an output of 21,000 KW.
- 3) One which is used only for local consumption, producing 3500 KW.
- 4) This last is run off the two Babcock & Wilcox boilers.

2. The first three high-pressure boilers were planned to have an output of 70 tons of steam an hour, but this proved impossible, and their maximum actual output is 45 tons; thus 55,500 KW only are available for distribution outside Trebovice.
3. A further high-pressure boiler (150 atm; 500° C; capacity 180 tons an hour) is under construction jointly by the Vitkovice foundry and Skoda Plzen; it should be ready for installation at the beginning of 1950. When operative, it will increase the output of the existing turbogenerator (exclusive of the local consumption plant) to a maximum 65,000 KW.
4. This boiler has, however, been constructed primarily for use in a block power unit with turbogenerator No V(40,000 KW output) and transformer 50,000 KVA 10/110 KV, both of which are under construction at Vitkovice and Skoda/Plzen.

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Document No. 2

No Change in Class. ☐

☐ Declassified

Class. Changed To: TS S ☒ C

Auth: HR 70-2

Date: 020678

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CENTRAL INTELLIGENCE AGENCY

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These two assemblies were ordered in 1946 and should have been delivered before the expiration of the Two-Year-Plan. The firms failed, however, to meet the production schedules, and it is not expected that the 40,000 KW block will, in fact, be delivered and in operation before the end of 1950.

5. Orders were also placed by ET 2 in 1946/7 for the following items of equipment:

- a. One block, consisting of turbogenerator and transformer, for an output of 50,000 KW at 530° C superheated steam (prehlati pary) from each of the following firms:   Gaskomoravska Kolben Danek (Prague), and Skoda/Plzen. 50X1-HUM
- b. Three high-pressure steam boilers, each made to the specification of one of the above blocks, from the Vitkovice plant. These boilers will have a pressure of 110 atm. at 540° C and an output of 220 tons an hour. Two of them are fitted with a slag-melting chamber and cooling grill.

6. The buildings to house the new 40,000 and the first 50,000 KW blocks have already been constructed. It is estimated that the overall output will probably be raised by the delivery of this new plant to 155,000 KW by the end of 1953, and to 255,000 KW by the end of 1958. Of this, 240,000 KW will be available for general distribution.\*

7. A special machinery research and maintenance shop will be set up at ET 2 to tend the new block units since each of the latter will be delivered by a different firm.

8. Comparative tables of electrical current production from ET are as follows:

1937	.....	137 million KW h
1947	.....	338 " "
1948	.....	342 " "
Jan/June 1949	.....	179 " "

9. The main consumers of power from ET are:

- a. VME (East Moravian Electrical Plants), Prerov - about 50 percent.
- b. VME, Ostrava ) about 20% each
- c. VME, Slovenske )
- d. Ostrava Karvinna Mines (which have their own plants, integrated with ET, and which deliver small amounts of their own current to
- e. VME. They are shortly to be taken over by CEZ).
- f. ZME (West Moravian Plants), Brno
- g. Bata, Zlin

10. The output and distribution of power from ET Trebovice is integrated with that from the Ostrava Karvinna mine generators, the electrical power stations at Prerov and in the Rosice basin, the thermal station at Brno, the hydroelectric plant at Vranov, and the power stations at Oslavany and Svitavy.

11. ET Trebovice is connected by:

- a. 110 KV line to the distribution plant at Dluhonice for supply to the Prerov area
- b. 110 KV line to " " " " Rajec (Zabreh) " N. Moravia "
- c. 110 KV line to " " " " Zilina (via Trinec) " Slovakia "

12. Work is still in progress on the 110 KV. line from Cechy to Morava and on the 220 KV. line from Ostrava to the brown coal basin near Ervenice and Komorany. The power stations at the two latter towns will also avail themselves of this line for the distribution of their power.

13. The Ostrava-Prerov-Oslavany line, which will later be extended to Austria and Poland for mutual deliveries of power, is also still under construction. The Polish station to which the line will be led is that at Dwory; this is a joint Polish-Czech enterprise. The Czech contribution to its construction will be repaid by the Poles in the form of future deliveries of current from the station to Czechoslovakia.

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\*   Comment: This must mean that the new boiler (Para. 3) will continue to provide power for both the existing turbogenerators and the new 40,000 KW block.